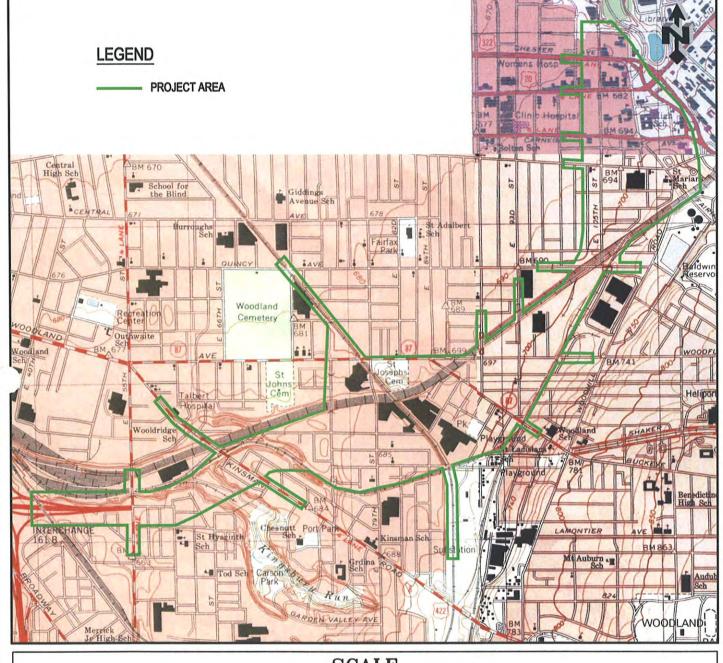
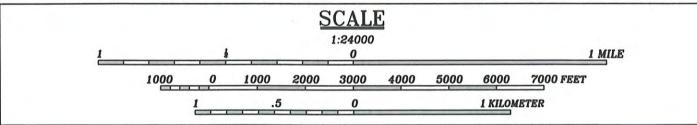
APPENDIX A USGS TOPOGRAPHIC MAP

USGS TOPOGRAPHIC MAP



1994 CLEVELAND SOUTH, 1994 SHAKER HEIGHTS, 1994 EAST CLEVELAND OHIO QUADRANGLES



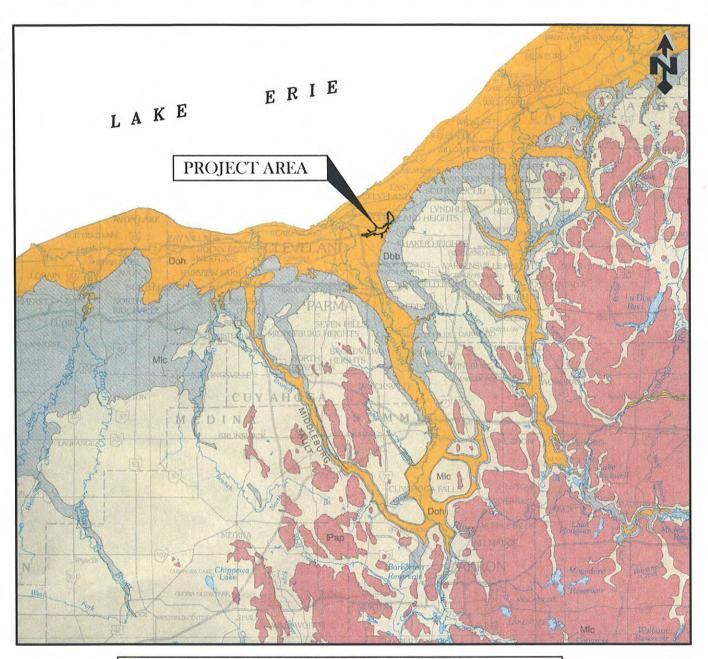




OPPORTUNITY CORRIDOR CLEVELAND, CUYAHOGA COUNTY, OHIO

APPENDIX B BEDROCK GEOLOGIC MAP

2006 BEDROCK GEOLOGIC MAP OF OHIO



LEGEND

Doh

Ohio Shale (Upper Devonian) (mapped Interval includes Olentangy Shale south of central Delaware County)—Unit consists generally of three members, in descending order: Cleveland, Chagrin, and Huron Members. Cleveland Member, shale; black; thickest in north-central portion of state; thins south and eastward; absent in northeastern portion of state. Chagrin Member, shale, siltstone, and very fine-grained sandstone; gray to greenish gray; thickest in northeastern portion of state; grades into underlying and overlying black shale members; thins southwestward, becomes Three Lick Bed in southern portion of state. Huron Member, shale; mostly black; carbonaceous; calcareous concretions common in lower portion. Olentangy Shale, mostly upper portion; thin; present but not mapped as separate unit south of central Delaware County; absent on Bellefontaine Outlier; see Olentangy Shale for description. Unit structurally deformed in Serpent Mound Impact Structure (see fig. 3).



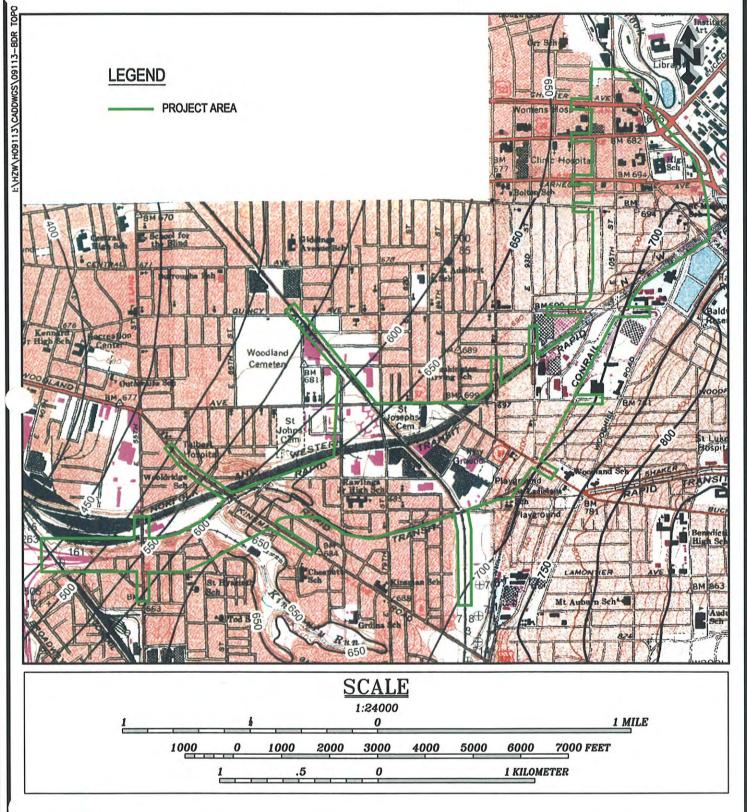
APPENDIX C BEDROCK TOPOGRAPHY MAP

(GMB) 9/14/09

BEDROCK TOPOGRAPHY MAP



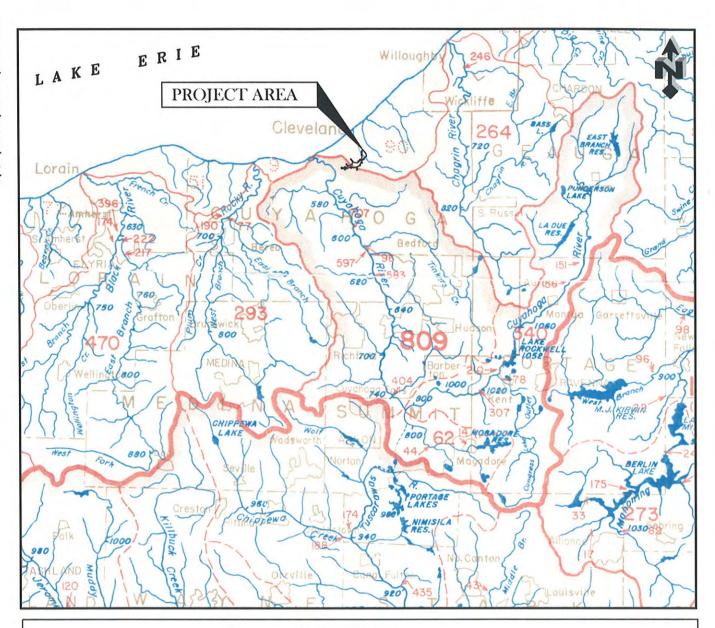
1996 CLEVELAND SOUTH, 2002 SHAKER HEIGHTS, 2002 EAST CLEVELAND OHIO QUADRANGLES





| APPENDIX I |
|--|
| PRINCIPAL STREAMS AND THEIR DRAINAGE AREAS MAI |

PRINCIPAL STREAMS AND DRAINAGE AREAS



LEGEND

Areas of drainage basins, in square miles, are shown by red figures as follows:

1757 Are

Areas enclosed by shaded red lines

499

Areas enclosed by unshaded red lines

313

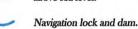
Auxiliary land areas within the limits of the State.



Drainage areas above points indicated by arrows



Approximate low-water elevation in feet above sea level.





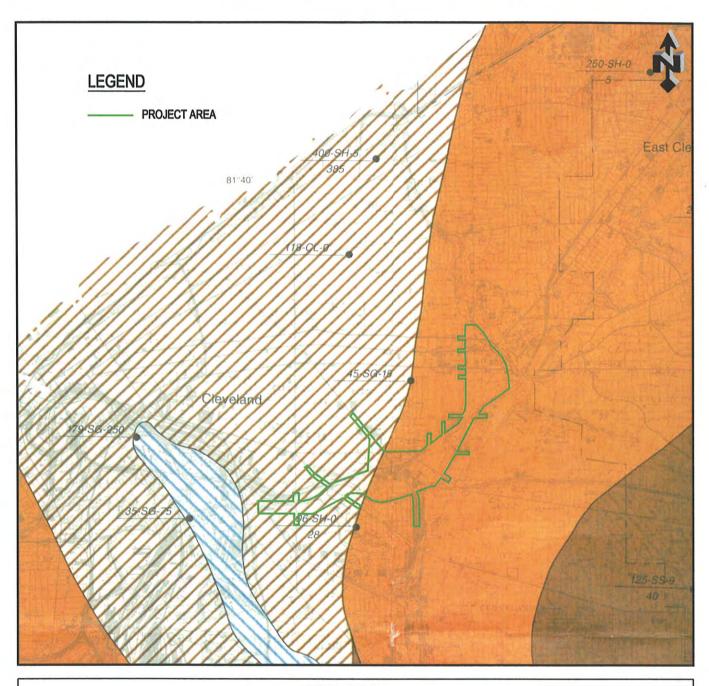


Selected urbanized areas, communities, and county seats chosen to aid in map orientation.



APPENDIX E GROUND WATER RESOURCES MAP

GROUND WATER RESOURCES MAP CUYAHOGA COUNTY, OHIO 1992



LEGEND

AREAS IN WHICH LESS THAN 3 GALLONS PER MINUTE MAY BE DEVELOPED

AREAS IN WHICH 3 TO 10 GALLONS PER MINUTE MAY BE DEVELOPED



Impermeable deposits, basically clay overlaying shale or shaley sandstone, provide a very poor area for even minimal domestic supplies. Brackish water and dry wells are common. Storage is necessary to supply peak demands.



Buried valleys contain 200 to 300 feet of fine sand, silt, and clay. Drilled wells yield meager supplies unless encountering thin, isolated sand and gravel lenses.



OPPORTUNITY CORRIDOR CLEVELAND, CUYAHOGA COUNTY, OHIO

APPENDIX F AERIAL PHOTOGRAPHS



HZW ENVIRONMENTAL CONSULTANTS, LLC

SCALE: 1"=500' 0 500 1000 SHEET 1 OF 5 OPPORTUNITY CORRIDOR CLEVELAND, CUYAHOGA COUNTY, OHIO



500

HZW ENVIRONMENTAL CONSULTANTS, LLC

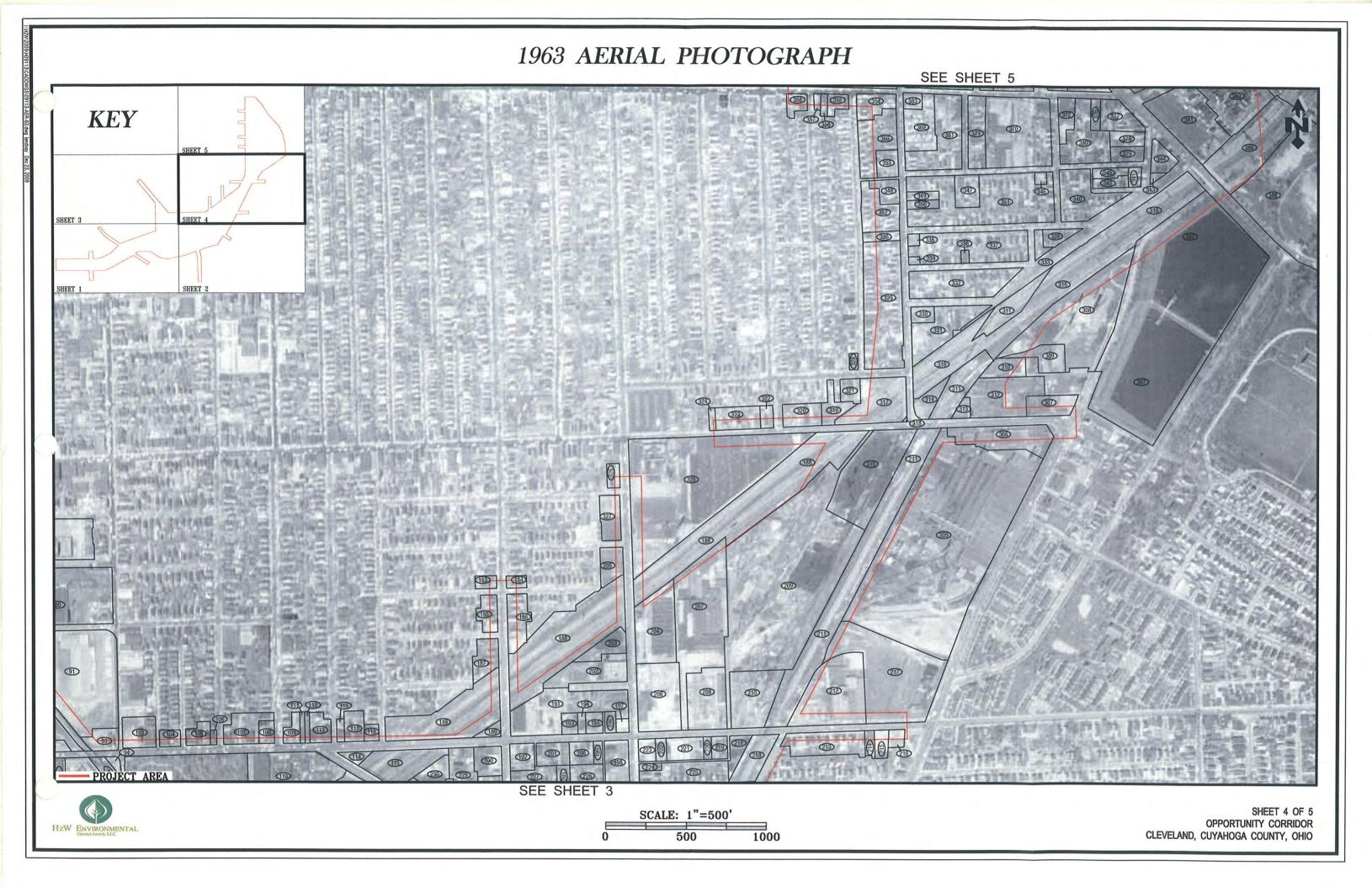
1000

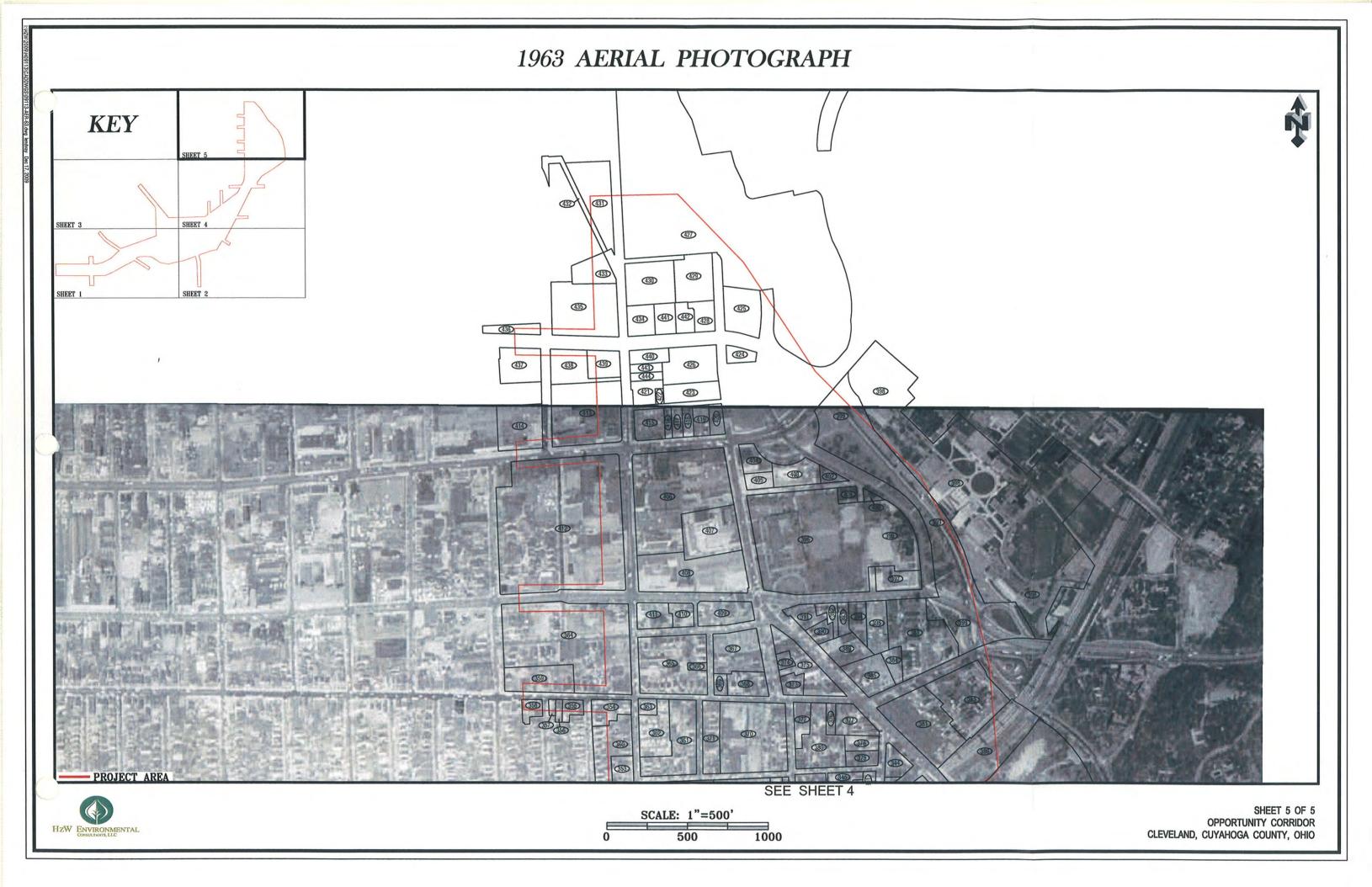
CLEVELAND, CUYAHOGA COUNTY, OHIO



HZW ENVIRONMENTAL ODSSUTANTS, LLC

SCALE: 1"=500' 0 500 1000 SHEET 3 OF 5 OPPORTUNITY CORRIDOR CLEVELAND, CUYAHOGA COUNTY, OHIO







1000

500

HZW ENVIRONMENTAL CONSULTANTS, LLC



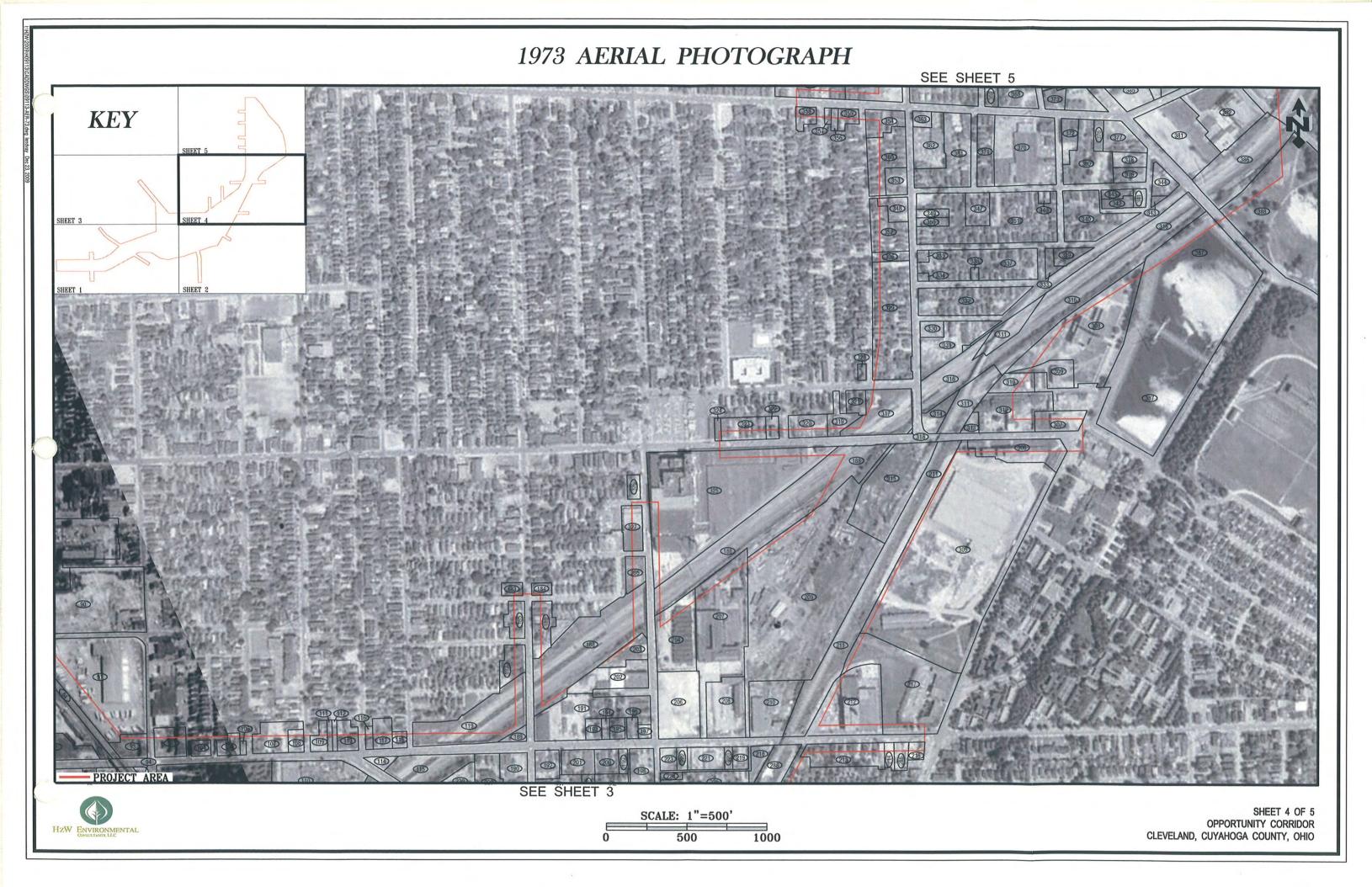
HzW ENVIRONMENTAL ODSSUTANTS, LIC

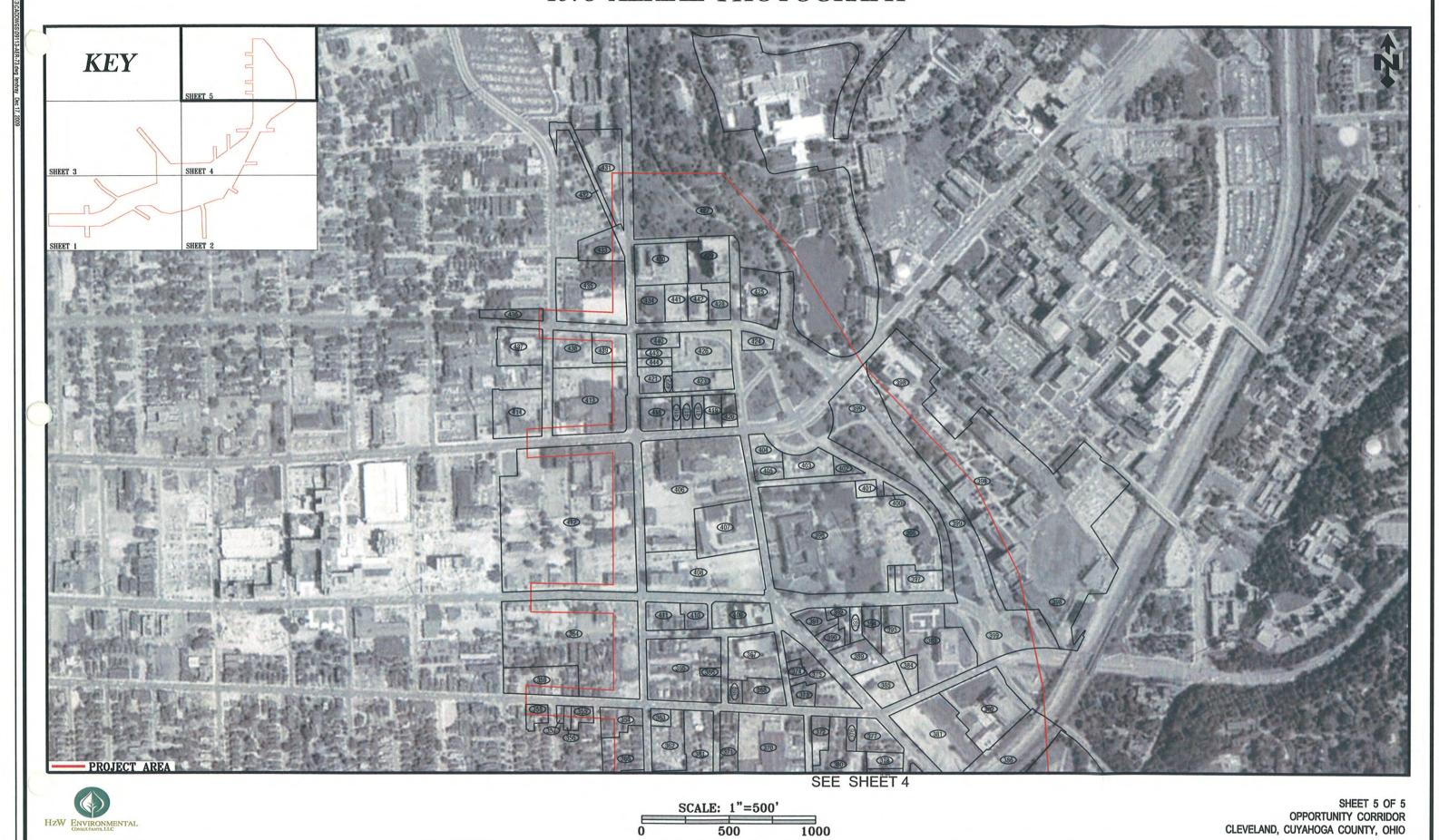
SCALE: 1"=500' 0 500 1000 SHEET 2 OF 5 OPPORTUNITY CORRIDOR CLEVELAND, CUYAHOGA COUNTY, OHIO

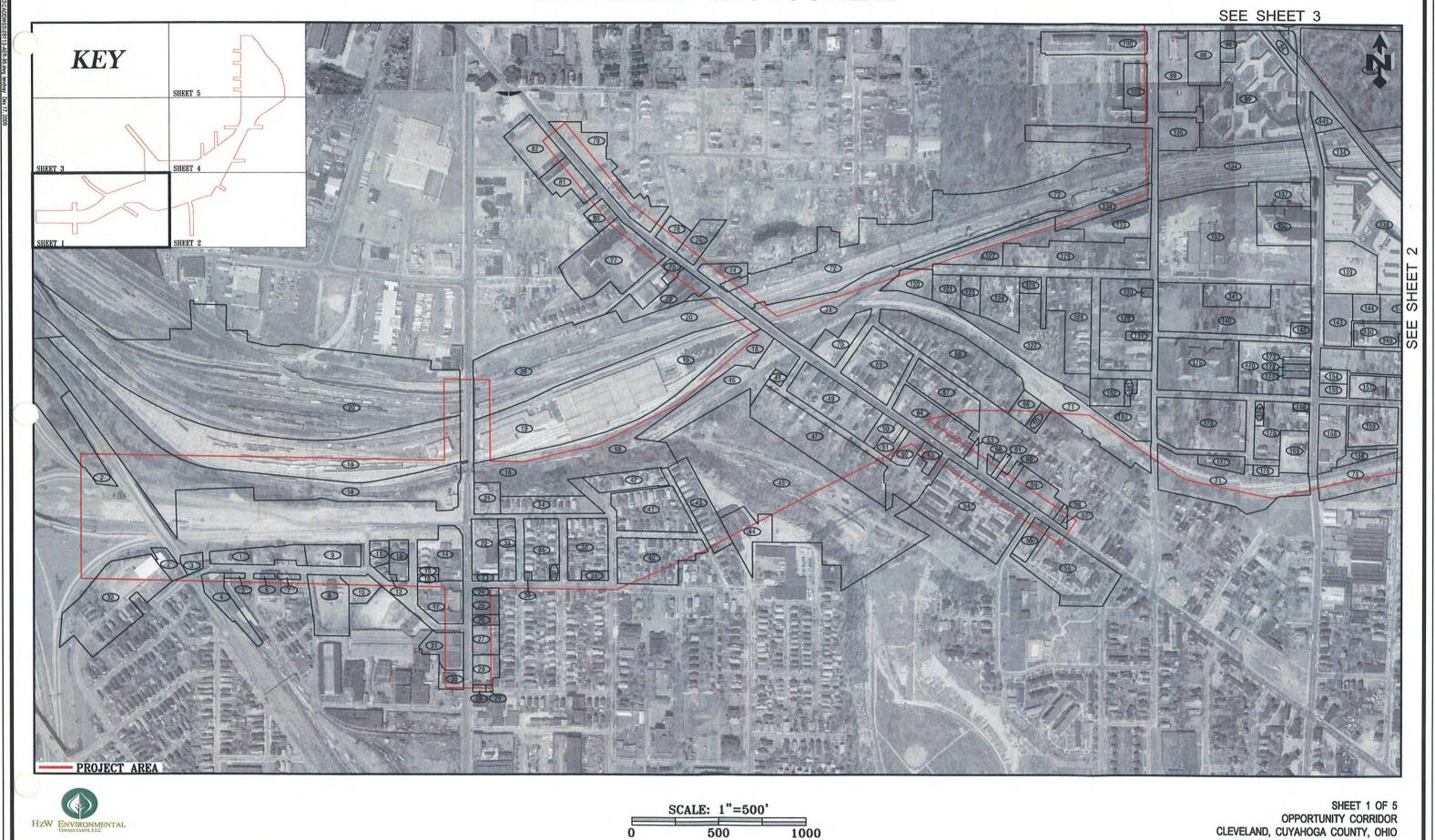


HZW ENVIRONMENTAL CONSULTANTS, LLC

SCALE: 1"=500' 0 500 1000 SHEET 3 OF 5 OPPORTUNITY CORRIDOR CLEVELAND, CUYAHOGA COUNTY, OHIO







1000

500

HZW ENVIRONMENTAL CONSULTANTS, LLC

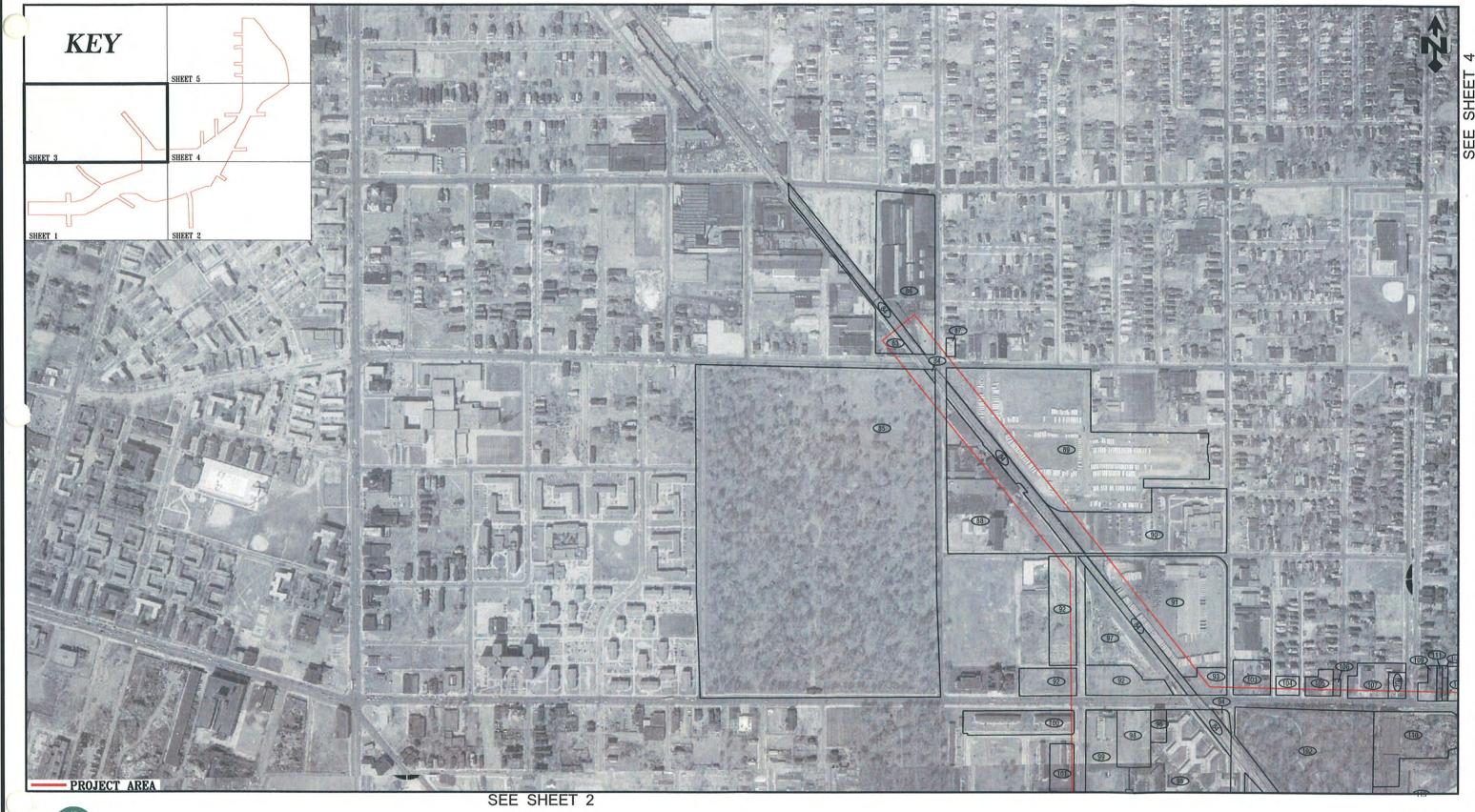


1000

HZW ENVIRONMENTAL CONSULTANTS, LLC

OPPORTUNITY CORRIDOR

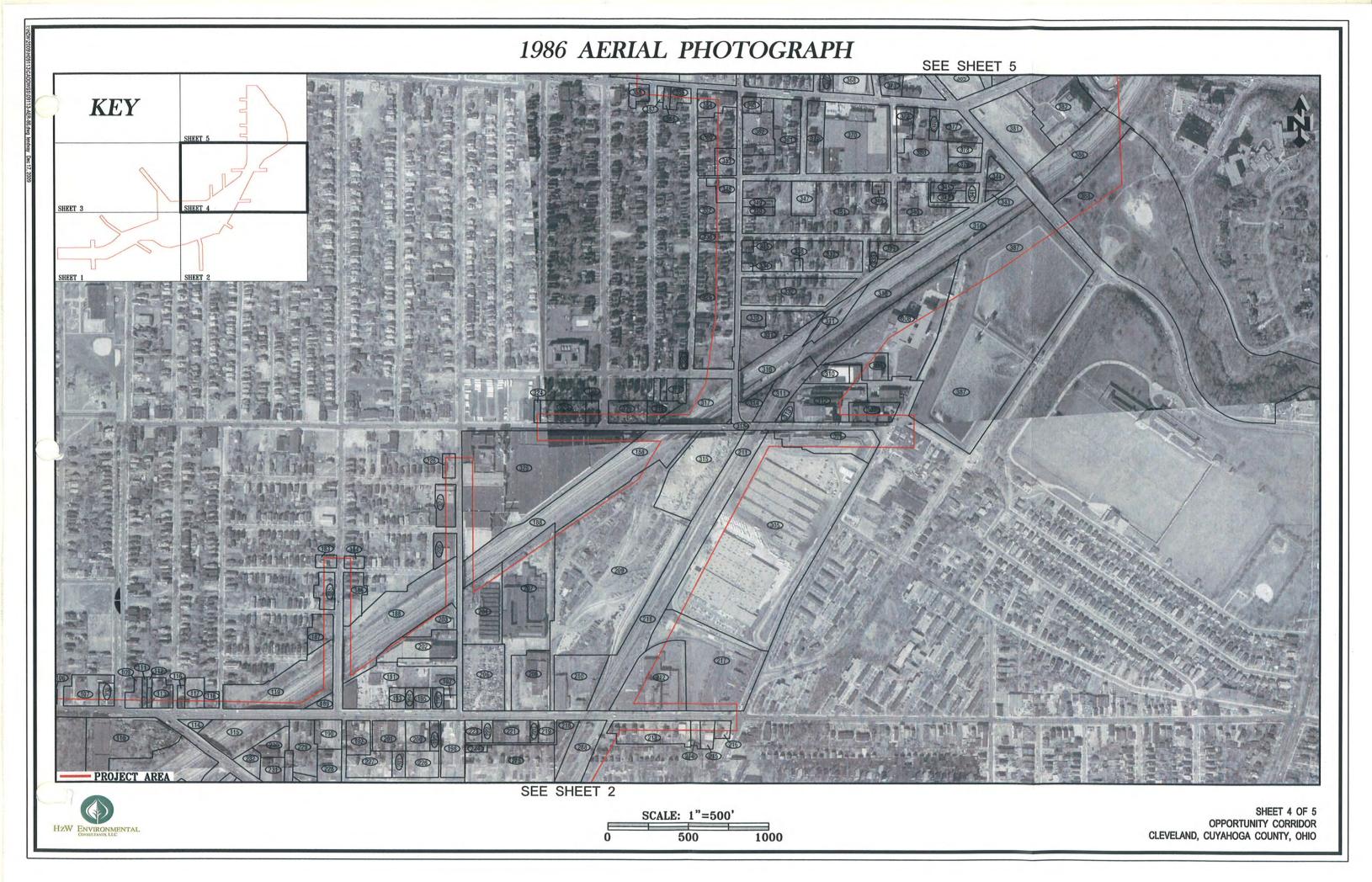
CLEVELAND, CUYAHOGA COUNTY, OHIO



HZW ENVIRONMENTAL CONSULTANTS, LIC

SCALE: 1"=500'
0 500 1000

SHEET 3 OF 5 OPPORTUNITY CORRIDOR CLEVELAND, CUYAHOGA COUNTY, OHIO



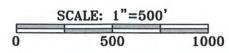


HZW ENVIRONMENTAL ODSSULTANIS, LLC

SCALE: 1"=500' 0 500 1000 SHEET 5 OF 5 OPPORTUNITY CORRIDOR CLEVELAND, CUYAHOGA COUNTY, OHIO



HzW ENVIRONMENTAL ODSIGNATING LIC

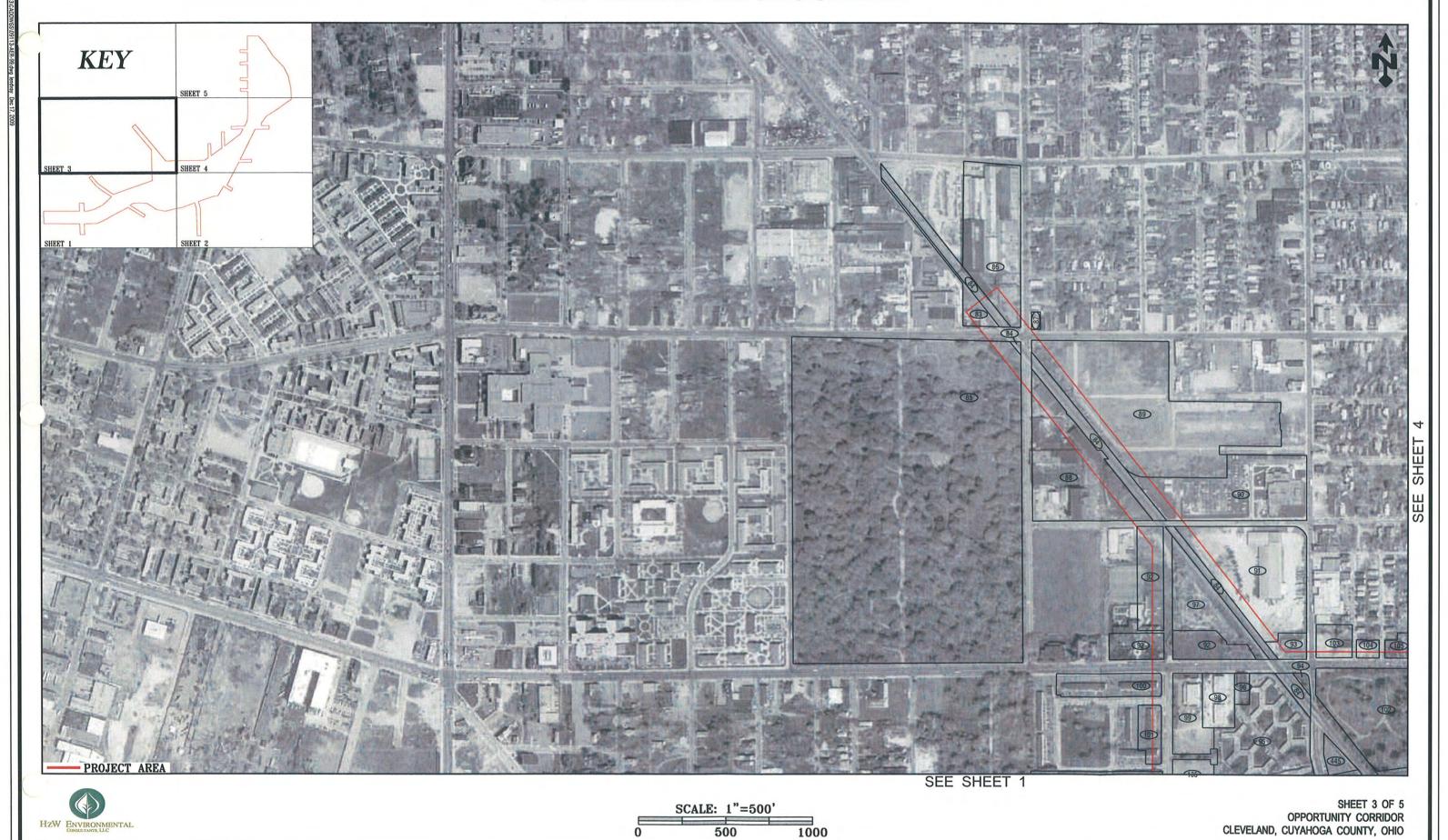


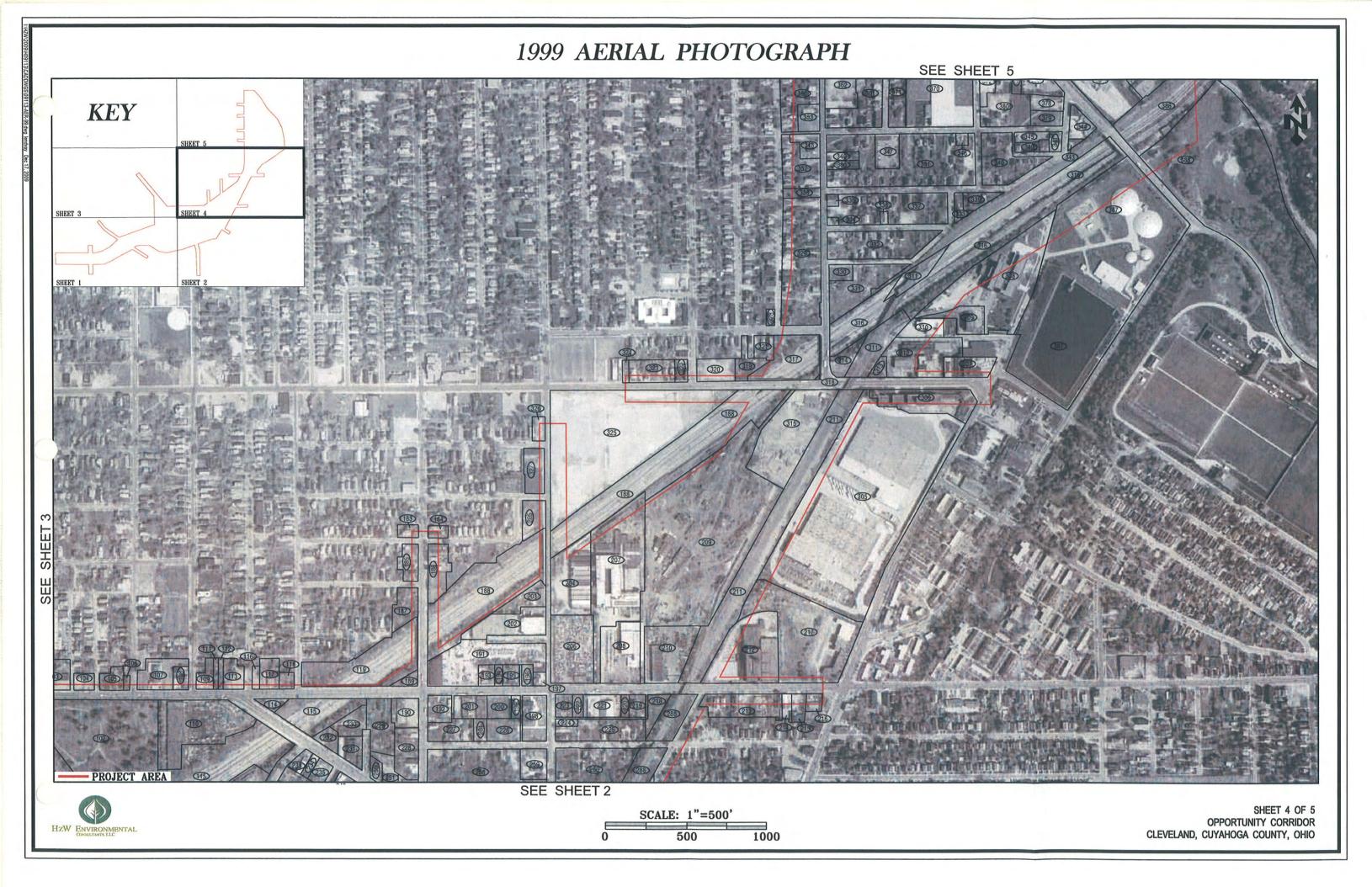
SHEET 1 OF 5 OPPORTUNITY CORRIDOR CLEVELAND, CUYAHOGA COUNTY, OHIO



HZW ENVIRONMENTAL

1000



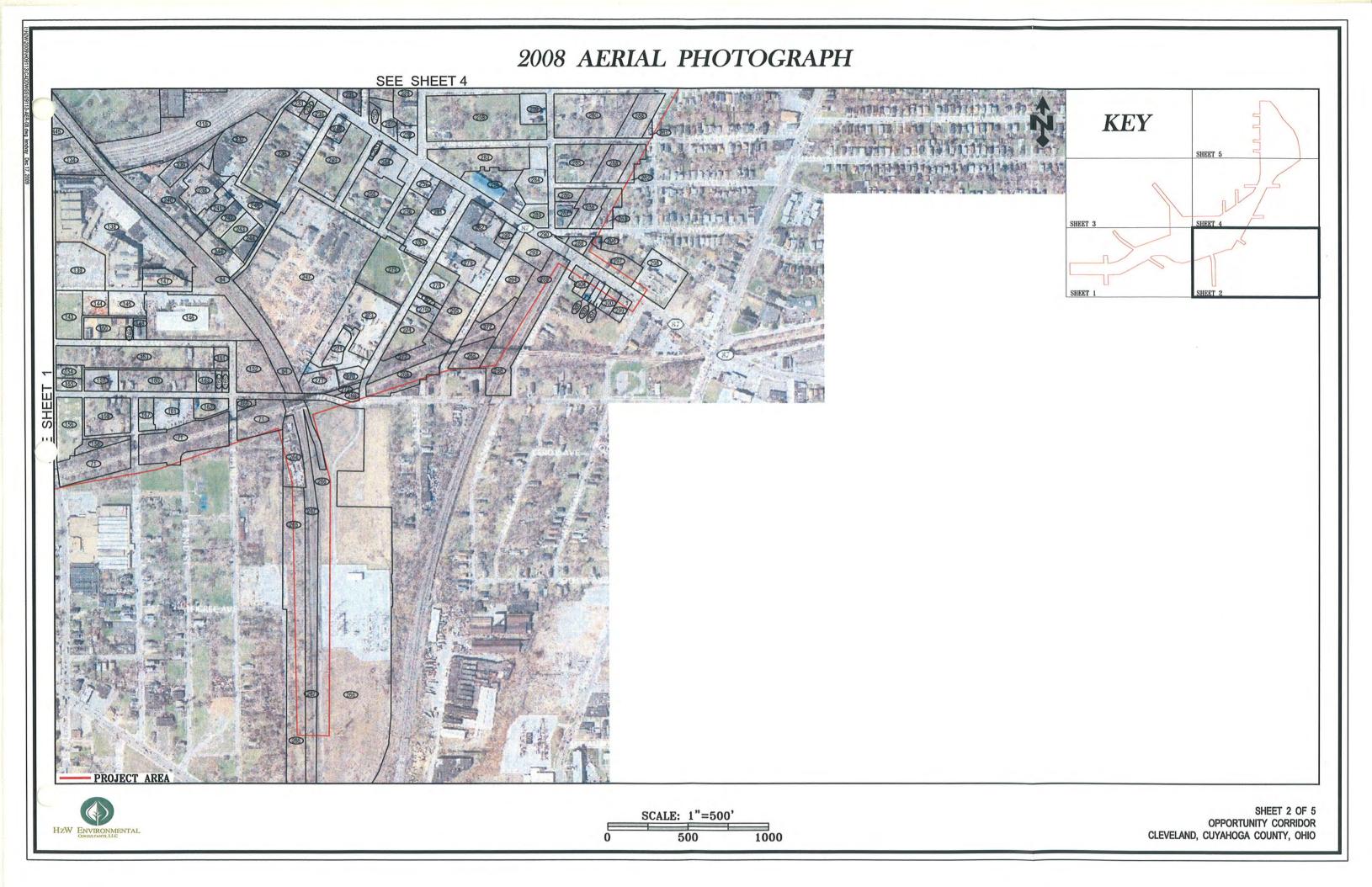


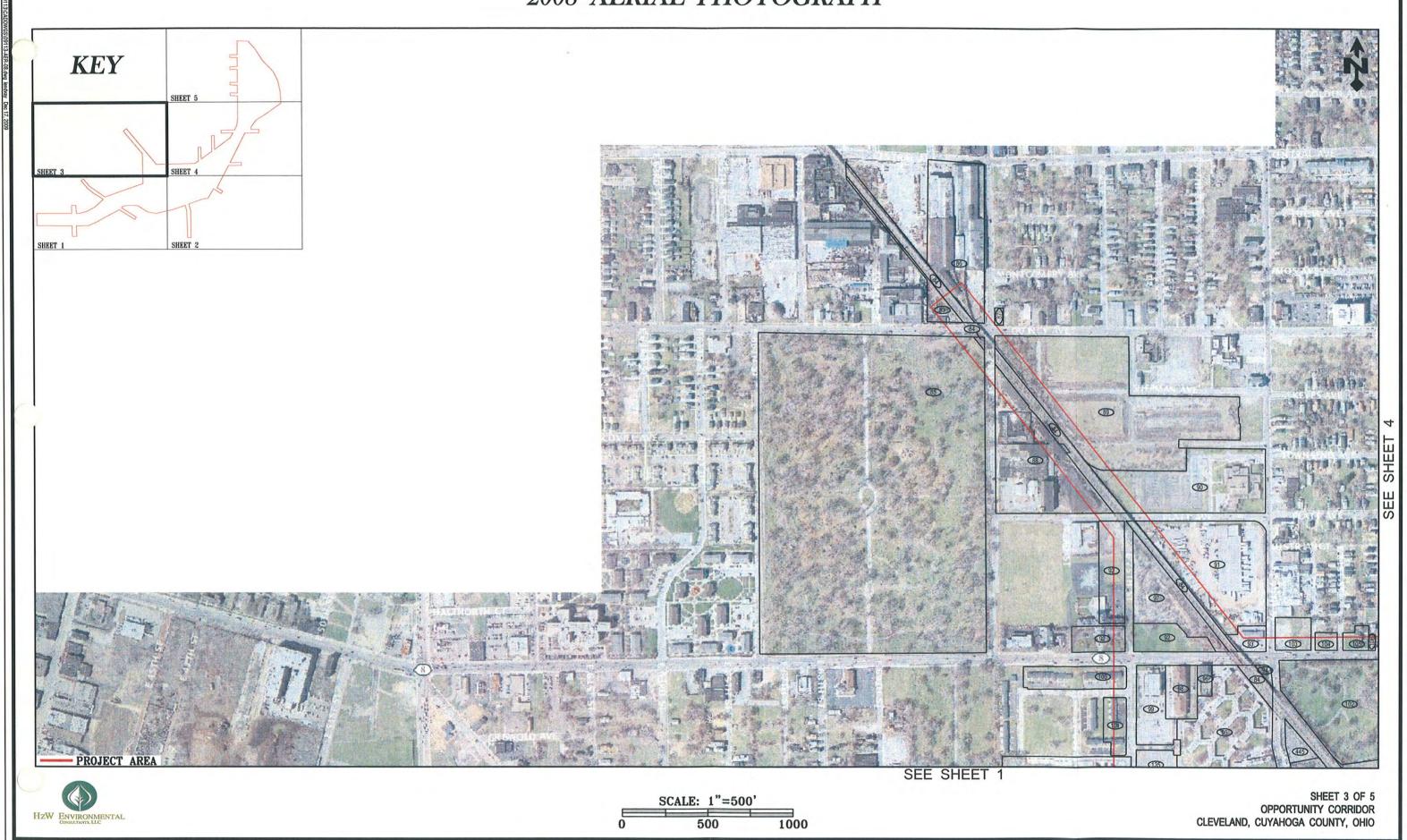


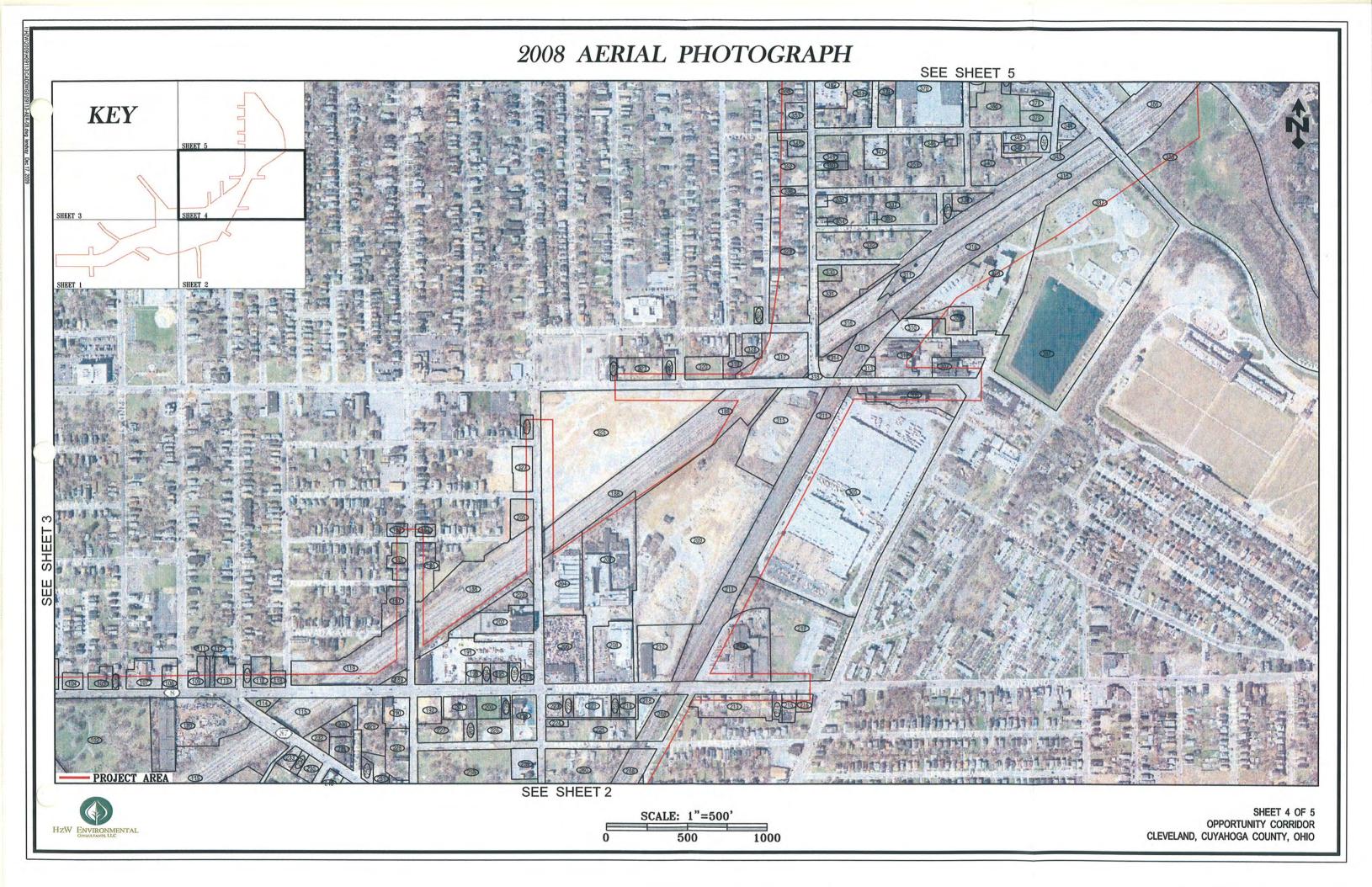
HzW ENVIRONMENTAL CONSULTARIS, LLC

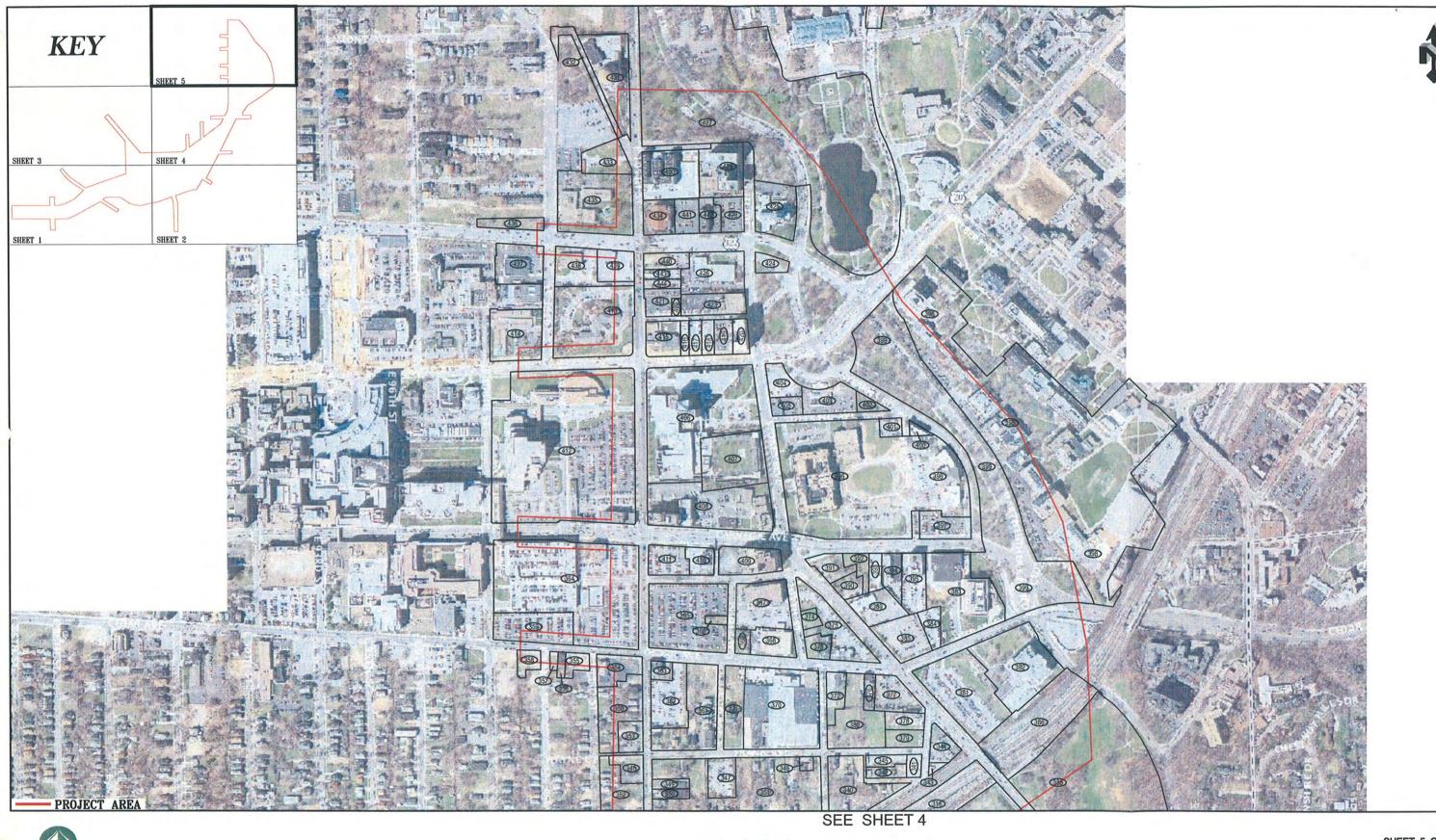
SCALE: 1"=500' 0 500 1000 SHEET 5 OF 5 OPPORTUNITY CORRIDOR CLEVELAND, CUYAHOGA COUNTY, OHIO

2008 AERIAL PHOTOGRAPH SEE SHEET 3 **KEY** 139 SHEET 1 OF 5 SCALE: 1"=500' OPPORTUNITY CORRIDOR CLEVELAND, CUYAHOGA COUNTY, OHIO 500 1000 HZW ENVIRONMENTAL









HZW ENVIRONMENTAL COSSULTANTS, LLC

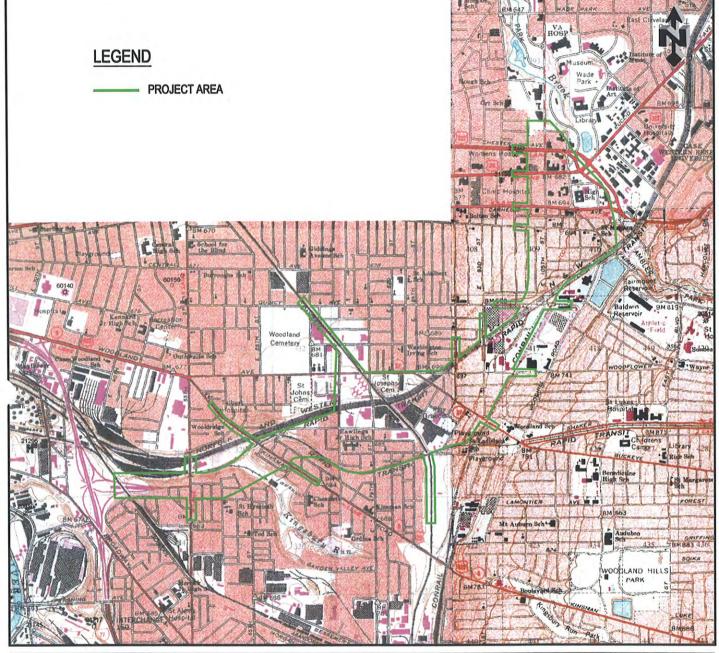
SCALE: 1"=500' 0 500 1000 SHEET 5 OF 5 OPPORTUNITY CORRIDOR CLEVELAND, CUYAHOGA COUNTY, OHIO

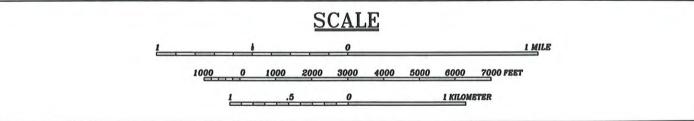
APPENDIX G OIL AND GAS WELL MAP

OIL AND GAS WELL MAP



1983 CLEVELAND SOUTH, 1983 SHAKER HEIGHTS, 1983 EAST CLEVELAND OHIO QUADRANGLES







OPPORTUNITY CORRIDOR CLEVELAND, CUYAHOGA COUNTY, OHIO